Index of Claims

Application/Control No.

10/025,045

Examiner

Reexamination

AHROON, WILLIAM A.

Applicant(s)/Patent under

Art Unit

David D. Knepper

2654

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected ı Interference

Appeal Α 0 Objected

| Cla   | aim      | Date     |           |          |          |          | Cla      | im              | Date     |   |       |                 |          |                 |          | CI         | aim                     | 1       |              |                 |          | Date  |          |            |          |           |          |          |           |          |          |          |           |
|-------|----------|----------|-----------|----------|----------|----------|----------|-----------------|----------|---|-------|-----------------|----------|-----------------|----------|------------|-------------------------|---------|--------------|-----------------|----------|-------|----------|------------|----------|-----------|----------|----------|-----------|----------|----------|----------|-----------|
| Final | Original | 12/18/05 |           |          |          |          |          |                 |          |   |       | Final           | Original |                 |          |            |                         |         |              |                 |          |       | Final    | Original   |          |           |          |          |           |          |          |          |           |
|       | 1        | 7        |           |          |          | $\dashv$ | $\dashv$ | Н               | $\dashv$ |   |       |                 | 51       | $\vdash$        | $\dashv$ | +          | +                       | +       | +            | $\vdash$        | ᅱ        |       | -        | 101        | -        |           |          | _        | _         |          | $\dashv$ | $\dashv$ | $\dashv$  |
|       | 2        | V        | H         |          | _        |          |          | Н               |          |   |       |                 | 52       | H               | $\dashv$ | $\dashv$   | +                       | +       | +            | $\vdash$        | $\dashv$ |       |          | 102        | Н        | $\dashv$  | ┪        |          | -         |          | t        | -+       | $\dashv$  |
|       | 3        | 1        |           |          |          |          |          | П               |          |   |       |                 | 53       |                 | 十        | 十          | $\top$                  | 1       | $\dagger$    | $\Box$          | 一        |       |          | 103        |          |           | 1        |          |           | $\neg$   | T        | $\dashv$ | $\exists$ |
|       | 4        | 1        |           |          |          |          |          |                 |          |   |       |                 | 54       |                 | T        | T          |                         | T       | 1            | П               |          |       |          | 104        |          |           | $\neg$   |          | 一         |          |          | $\neg$   | П         |
|       | 5        | 1        |           |          |          |          |          |                 |          |   |       |                 | 55       |                 |          |            |                         |         |              |                 |          |       |          | 105        |          |           |          |          |           |          |          | $\neg$   |           |
|       | 6        | 1        |           |          |          |          |          | Ш               |          |   |       |                 | 56       |                 | _        |            |                         |         |              |                 |          |       |          | 106        |          |           |          |          |           |          |          |          |           |
|       | 7        | ٧.       | Щ         | _        | _        |          | _        |                 |          |   |       |                 | 57       | Щ               | 4        | _          | $\perp$                 | 1       | $\perp$      | $\sqcup$        |          |       |          | 107        |          | Ш         | _        | _        | _         | _        |          | _        |           |
|       | 8        | <b>√</b> | Н         | _        | $\dashv$ | _        | -        | Щ               |          |   |       |                 | 58       |                 | -        | -          | 4                       | _       |              | $\sqcup$        | _        |       |          | 108        |          | $\Box$    | _        | _        | _         | _        |          | _        |           |
|       | 9<br>10  | 1        | Н         | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$ | Н               | $\dashv$ |   |       |                 | 59<br>60 | $\vdash \vdash$ | -        | -          | +                       | +       | ┿            | $\vdash$        | $\dashv$ |       | <u> </u> | 109        |          | -1        |          |          | -         |          | _        | $\dashv$ | $\dashv$  |
|       | 11       | V        | $\vdash$  | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$ | Н               | $\dashv$ |   |       |                 | 61       | Н               | -        | +          | +                       | +       | +            | ╁┼              | $\dashv$ |       | -        | 110<br>111 |          | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$  |          |          | $\dashv$ | _         |
|       | 12       | V        |           | -        | $\dashv$ | $\vdash$ | $\vdash$ | H               | $\vdash$ |   |       |                 | 62       | $\vdash \vdash$ | $\dashv$ | $\dashv$   | +                       | ÷       | +            | H               | $\dashv$ |       |          | 112        | -        | $\vdash$  | $\dashv$ | -        | -         |          | -        | $\dashv$ | $\dashv$  |
|       | 13       | V        | Н         |          |          | $\vdash$ | $\dashv$ | H               | $\vdash$ |   |       |                 | 63       | $\vdash$        | $\dashv$ | $\dashv$   | +                       | +       | +            | $\vdash$        | $\dashv$ |       | _        | 113        |          | $\vdash$  | -        |          | -         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
|       | 14       | 1        | П         |          |          | П        | $\vdash$ | М               | $\vdash$ |   |       |                 | 64       | П               | $\dashv$ | $\dashv$   | $\top$                  | $\top$  | $\top$       | $\vdash$        | _        |       |          | 114        |          | $\vdash$  | $\dashv$ | $\dashv$ |           | _        | $\dashv$ | $\dashv$ | $\dashv$  |
|       | 15       | √        |           |          |          |          |          |                 |          |   |       |                 | 65       | П               |          | $\neg$     | T                       | T       | 1            | H               | ヿ        |       |          | 115        |          | П         | 寸        |          | $\exists$ |          |          | 寸        |           |
|       | 16       | 4        |           |          |          |          |          |                 |          |   |       |                 | 66       |                 |          |            |                         |         | $oxed{oxed}$ |                 |          |       |          | 116        |          |           |          |          |           |          |          |          |           |
|       | 17       | 1        |           |          | _        |          |          | Ш               |          |   |       |                 | 67       |                 |          | $\Box$     |                         |         |              |                 |          |       |          | 117        |          |           |          |          |           |          |          | $\Box$   |           |
|       | 18       | √        | Ш         |          |          |          |          | Ш               |          |   |       |                 | 68       |                 |          |            |                         |         |              |                 |          |       |          | 118        |          |           |          |          |           |          |          | $\Box$   |           |
|       | 19       | √        |           | _        |          |          |          | Ш               |          |   |       |                 | 69       | $\sqcup$        | _        | _          | _                       |         | ļ            | Ш               |          |       |          | 119        |          |           | $\Box$   |          |           |          |          |          |           |
|       | 20       | √        | Н         |          |          |          |          |                 |          |   |       |                 | 70       |                 | _        | 4          | $\bot$                  | 4       | 4_           | $\sqcup$        | _        |       |          | 120        |          |           | _        | _        | _         | _        | _        | $\dashv$ | $\dashv$  |
|       | 21       |          | $\vdash$  |          | $\dashv$ |          |          | Н               |          |   |       |                 | 71       | $\sqcup$        | _        |            | $\perp$                 | 4       | 4_           | $\vdash$        | _        |       |          | 121        |          | $\dashv$  | _        | _        | _         | _        | _        | _        | _         |
|       | 22<br>23 | _        | $\vdash$  | $\dashv$ | -        |          |          | Н               |          |   |       |                 | 72       | $\vdash$        | -        | -          | +                       | +       | +-           | $\vdash$        |          |       |          | 122        |          | _         | 4        | _        |           |          |          | $\dashv$ | _         |
|       | 24       | $\vdash$ | $\vdash$  | $\dashv$ |          |          | $\vdash$ | Н               |          |   |       |                 | 73<br>74 | $\vdash$        | $\dashv$ | $\dashv$   | +                       | +       | +            | $\vdash$        |          |       |          | 123<br>124 |          | $\dashv$  | -        | -        | -         | -        |          | $\dashv$ | $\dashv$  |
|       | 25       | H        | Н         | $\dashv$ | -        |          |          | Н               | $\dashv$ |   |       |                 | 75       | $\vdash$        | $\dashv$ | $\dashv$   | +                       | +       | ╁╌           | $\vdash$        | $\dashv$ |       |          | 125        |          | $\dashv$  | $\dashv$ | -        | -         | -        |          | $\dashv$ | $\dashv$  |
|       | 26       |          |           | -        | $\neg$   |          |          |                 | $\vdash$ |   |       | $\vdash$        | 76       | ┥               | +        | $\dashv$   | +                       | +-      | ╁            | 1               | $\dashv$ |       |          | 126        |          | $\dashv$  | $\dashv$ | $\dashv$ | -         | ┪        | }        | $\dashv$ | $\dashv$  |
|       | 27       |          |           | 一        | $\neg$   |          |          |                 |          |   |       |                 | 77       | H               | T        | T          | +                       | +       | +            | $\Box$          | ⊣        |       | -        | 127        |          | $\vdash$  | ᅥ        |          | -         | $\dashv$ |          | $\dashv$ | $\dashv$  |
|       | 28       |          | Ħ         |          |          |          |          |                 | $\neg$   |   |       |                 | 78       |                 | 寸        | $\dashv$   | $\top$                  | +       | $\dagger$    | H               | ᅥ        |       |          | 128        |          |           |          |          |           | 一        |          | $\dashv$ | $\neg$    |
|       | 29       |          |           |          |          |          |          |                 |          |   |       |                 | 79       |                 | 寸        | T          | 1                       |         | 1            | П               |          |       |          | 129        |          |           | $\neg$   |          |           |          | Ť        | $\dashv$ | $\dashv$  |
|       | 30       |          |           |          |          |          |          |                 |          |   |       |                 | 80       |                 |          | T          |                         |         |              |                 |          |       |          | 130        |          | $\Box$    | $\neg$   |          |           | $\neg$   |          | $\neg$   | $\exists$ |
|       | _31      |          |           |          |          |          |          |                 |          |   |       |                 | 81       |                 |          |            |                         |         |              |                 |          |       |          | 131        |          |           |          |          |           |          |          | $\Box$   |           |
|       | 32       | L.       | $\sqcup$  |          |          |          |          | Ш               |          |   |       |                 | 82       | Щ               | [        | _          |                         |         |              |                 |          |       |          | 132        |          | Ш         | $\Box$   |          | $\Box$    | $\Box$   |          | $\Box$   |           |
|       | 33       | _        | $\vdash$  |          | _        |          |          | Ш               |          |   |       |                 | 83       | $\sqcup$        | $\dashv$ | $\dashv$   | $\bot$                  | $\perp$ | 4_           |                 | _        |       |          | 133        | Щ        | Ц         | _        |          | _         |          | ļ        |          | ╜         |
|       | 34<br>35 | _        |           | -        | $\dashv$ |          |          | $\vdash$        |          |   |       | $\vdash$        | 84       | $\vdash$        | $\dashv$ | $\dashv$   | +                       | +       |              | $\vdash$        | _        |       | <u> </u> | 134        | Ь.       | $\square$ |          |          |           | _        | _        | _        | $\dashv$  |
|       | 36       | -        | $\vdash$  | -        |          | -        | $\vdash$ | $\vdash \vdash$ | $\vdash$ |   |       | $\vdash$        | 85<br>86 | $\vdash$        | $\dashv$ | +          | +                       | +       | +-           | $\vdash$        | $\dashv$ |       | <u> </u> | 135        |          | $\vdash$  |          | _        |           |          | _        | $\dashv$ | $\dashv$  |
| -     | 37       | -        | $\vdash$  |          | $\dashv$ | $\vdash$ | $\vdash$ | Н               |          | _ |       | $\vdash$        | 87       | $\vdash$        | $\dashv$ | +          | +                       | +       | +            | $\vdash$        |          |       | -        | 136<br>137 | H        | $\vdash$  |          |          | -         | $\dashv$ | +        | $\dashv$ | $\dashv$  |
|       | 38       | -        | $\vdash$  |          | $\dashv$ | $\vdash$ | H        | H               | $\vdash$ |   |       | $\vdash \vdash$ | 88       | $\vdash$        | $\dashv$ | $\dashv$   | +                       | +       | ╁            | $\vdash$        | -        |       |          | 138        |          | $\vdash$  |          |          |           | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
|       | 39       | $\vdash$ | $\vdash$  |          | $\dashv$ | $\vdash$ | $\vdash$ | Н               | $\vdash$ | _ |       |                 | 89       | H               | $\dashv$ | $\dashv$   | 十                       | +       | +            | $\vdash$        | $\dashv$ |       | $\vdash$ | 139        | H        | $\vdash$  |          | $\dashv$ | -         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
|       | 40       | <u> </u> | $\vdash$  | 7        |          | П        | H        | П               | $\vdash$ |   |       |                 | 90       | П               | $\dashv$ | 十          | $\dashv$                | T       | T            | $\vdash$        | -        |       | <b></b>  | 140        | $\vdash$ | $\vdash$  | $\dashv$ | $\dashv$ | $\dashv$  | 一        | $\dashv$ | $\dashv$ | $\dashv$  |
|       | 41       |          |           |          |          |          |          |                 |          |   |       |                 | 91       |                 | 寸        | 7          | 十                       | $\top$  | $\top$       |                 |          |       |          | 141        | П        | H         |          | $\dashv$ |           |          | $\dashv$ | $\dashv$ | $\dashv$  |
|       | 42       |          |           |          |          |          |          |                 |          |   |       |                 | 92       |                 |          | ⇉          | 丁                       |         | Ι            |                 |          |       |          | 142        |          | Ħ         | T        |          |           |          |          | $\dashv$ | $\neg$    |
|       | 43       |          |           |          |          |          |          |                 |          |   |       |                 | 93       |                 |          | $\Box$     | $oldsymbol{\mathbb{I}}$ | l       |              |                 |          |       |          | 143        |          |           |          |          |           |          | 丁        |          |           |
|       | 44       | _        | Ш         |          |          | Ш        |          | Ш               | Ц        |   |       |                 | 94       | Ц               |          | _Ţ         | $\perp$                 |         | L            | $\Box$          |          |       |          | 144        |          |           |          |          |           |          | $\Box$   | $\Box$   |           |
|       | 45       | _        | Ш         |          | _        |          |          | Ш               | $\Box$   |   |       |                 | 95       | $\sqcup$        | $\perp$  | $\perp$    | $\perp$                 | 1       | L            | Ц               |          |       |          | 145        |          |           | $\Box$   |          | $\Box$    |          |          | $\Box$   |           |
|       | 46       |          | $\square$ | _        | _        |          |          | Щ               |          |   |       |                 | 96       | $\sqcup$        | $\dashv$ | $\bot$     |                         | $\perp$ | 1_           | $\sqcup$        |          |       |          | 146        |          | $\Box$    |          | ļ        | _]        | _]       | $\perp$  | $\Box$   | _]        |
|       | 47       | _        |           | _        | 4        |          |          | Н               | $\dashv$ |   |       |                 | 97       | Ш               | -        | 4          | $\bot$                  | $\perp$ | _            | $\sqcup$        | _        |       |          | 147        | Ш        | $\square$ |          |          | _         |          | _        |          |           |
|       | 48       | _        | $\vdash$  | -        | _        |          |          | Н               | -        |   |       |                 | 98       | $\vdash \vdash$ | $\dashv$ | $\dashv$   | -                       | +       | +            | $\sqcup$        |          |       |          | 148        | Ш        | $\sqcup$  | _        |          | _         | _        | 4        | _        |           |
|       | 49<br>50 | _        | -         | $\dashv$ |          |          |          | $\vdash \dashv$ | $\dashv$ |   |       | $\vdash$        | 99       | $\vdash \vdash$ | $\dashv$ | $\dashv$   | +                       | +       | +            | $\vdash \vdash$ | 4        |       |          | 149        | Щ        | $\dashv$  |          | _        | $\dashv$  | _        | 4        | -        |           |
|       | 50       |          | oxdot     |          | 1        |          |          | L               |          |   | ::::: | لــــــا        | 100      | Щ               |          | $_{\perp}$ | 丄                       |         |              |                 |          | ::::: |          | 150        |          |           |          |          |           |          |          |          |           |